

create a healthy work environment
and reduce your HVAC costs



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Breathe easy

introducing the air probe sanitizer

- > cleans the air in office buildings
- > reduces HVAC operating costs





putting the power of ultraviolet light to work for you

Your building may be doing more harm than you realize. In an effort to create maximum energy efficiency, many buildings are sealed tightly. However, this has a negative effect of recirculating harmful chemicals from carpeting and furnishings, bacteria, mold and other microbes. This "sick building syndrome" causes worker absences due to illnesses and affects overall productivity.

New research shows that sterilizing air-conditioning systems with the Air Probe Sanitizer can fight sick building syndrome, which affects millions of workers each year. This technology, called Ultraviolet Germicidal Irradiation (UVGI) has the added benefit of reducing HVAC maintenance and operating costs.



UVGI uses ultraviolet rays to destroy mold on condenser coils which produce harmful microbes and particles. First explored in the 1930s, and long employed in hospitals to kill micro-organisms, UVGI has been more frequently used as the effects of sick building syndrome have become more known.

The intensity of UV-C exposure in the Air Probe Sanitizer is 2,500 times the output from the sun and eliminates 99% of pathogens by baking away contaminants that collect on coils and in the drain pan.



A PROVEN TECHNOLOGY

In a study published in November 2003 in the British medical journal, Lancet, by Dick Menzies of the McGill University in Canada, UVGI systems were repeatedly turned on for a month, off for three months and on again for a month, testing 771 workers. The result was a 99% reduction in the concentration of bacteria, fungi and endotoxins, irritants produced by mold. The workers reported an overall reduction of 20% in a wide variety of symptoms when the UVGI systems were on.

In February, 2005, Enviro-Clean reported a UVGI installation at Emory University in which the unit was alternately off for 12 weeks and on for 4 weeks for a total of 48 weeks of test time. The result was a 99% reduction in microbial and endotoxin concentrations in the ventilation system and a savings of more than \$7,000 per year for a payback of approximately 10 months.

In May 2005, King Freeze Mechanical Corp. installed the Air Probe Sanitizer in a commercial building at 335 Fifth Avenue in Manhattan. The building management had the air quality analyzed on that floor and another floor that had no UV lights. The air quality on the second floor was much improved. The management office staff reported decreased incidents of allergy and sinus attacks during that time.

the benefits of air probe sanitizer

- **Cleans the Air** Air Probe Sanitizer destroys 99% of harmful microbes so ducts and occupied spaces stay clean and free of viruses, bacteria and odors to promote a healthy workforce.
- **Reduces Energy Costs** Many commercial building operators estimate that UVGI systems have yielded 25 to 30% reductions in their total energy system usage.
- **Saves Money** When combined energy and maintenance savings are taken into account, Air Probe Sanitizer can typically pay for itself in as little as 10 months.
- **Highly Reliable** Since there are no moving parts there is virtually no wear-down or breakage of any kind.
- **Safe** Air Probe Sanitizer poses no risk to people or equipment. The UVGI system kills organisms without producing ozone or other secondary contamination.

- > the original **Air Probe Sanitizer**
- > manufactured by **Air Handlers Clean Air Concepts, Inc.**
- > distributed in NYC by **King Freeze Mechanical Corp.**

Call King Freeze to for a free quote on installing Air Probe Sanitizer in your building.

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